



UC-550E+ MPEG-2/H.264 HD Encoder

SW Version: V1.65

HW Version: V1.4.0

Web NMS Version: V1.28

About This Manual

Intended Audience

This manual has been written to help the end user install, integrate, and use the UC-550 MPEG2/H.264 Encoder. Some chapters require prerequisite knowledge in electronics and broadcast technologies.

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Chapter 1 Introduction

1.1 Product Overview

The UC-550E+ MPEG-2/H.264 SD\HD Encoder is equipped with multiple video (SDI, CVBS, YPbPr and HDMI) and audio (SDI Embedded, AES, RCA and XLR) input interfaces. Audio can be encoded in MPEG1 Layer II, HE-AAC and LC-AAC formats. A Multiplexing function is included which allows users to select incoming ASI streams to embed into the ASI\IP output.

1.2 Key Features

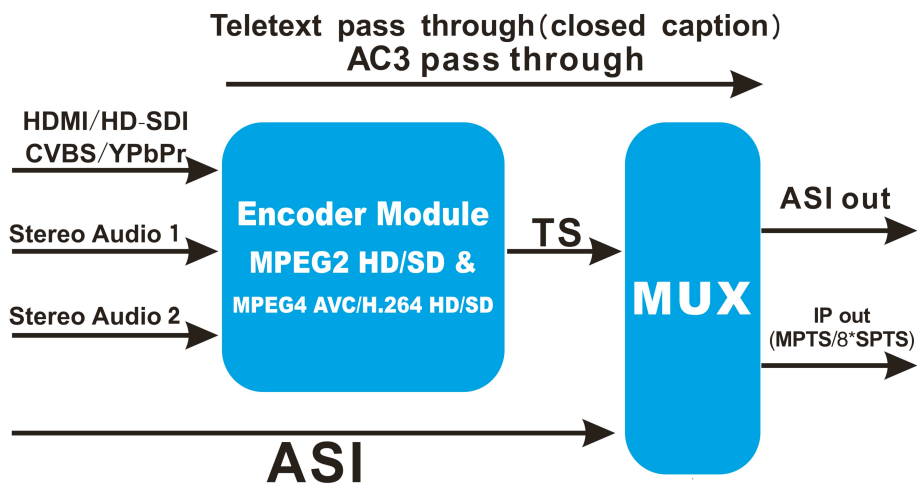
- **MPEG-2 HD/SD and MPEG-4 AVC/H.264 HD/SD Video Encoding**
- **Support for 1080I, 720P, 480I, 576I and 352*288 Video Resolution**
- **MPEG1 Layer II, HE-AAC (v1&v2) and LC-AAC Audio Encoding**
- **Supports 2 Stereo or 4 Mono Audio Encoding**
- **Support AC3 Pass Through**
- **Support for EIA 608 and EIA 708 CC (Closed Captioning)**
- **Applicable for one Seg/ISDB-T utilization (2 Streams Outputting Simultaneously: 1 one-seg and 1 Main Stream)**
- **IP (MPTS/8*SPTS) Output; ASI Output**
- **GOP Structure Setting**
- **Supports CBR (Constant Bitrate) & VBR (Variable Bitrate) Control**
- **Supports UDP/RTP Media Transmission Protocols with Multicast/Unicast Output**
- **LCD / Front Panel Keyboard Control and TCIP Web Management**

1.3 Specifications

Input		1×SDI, 1×CVBS, 1×YPbPr and 1×HDMI input	
		2×XLR, 2×RCA and 1×AES inputs	
		1×ASI input, BNC interface	
Video	Resolution	Input	Output
		1080i@60	1920×1080, 1440×1080, 1280×1080i
		1080i @59.94	
		1080i @50	
		720p@59.94	1280×720, 960×720p
		720p@50	
		576i	720×576, 704×576, 640×576, 544×576, 528×576, 352×576
		480i	720×480, 704×480, 640×480, 544×480, 528×480, 352×480
	Encoding	MPEG-2 HD/SD; MPEG-4 AVC/H.264 HD/SD	
	Bit-rate	0.25Mbps~60.5Mbps	
	Rate Control	CBR/VBR	
	GOP Structure	Auto, IP, IPB, IPBB, IPBBB, IPBBBB, IPBBBBB	
	Aspect Ratio	4:3; 16:9; 1:1; 2.35:1	
	Chroma	4:2:0; 4:2:2 (Applied to all resolution under MPEG2 compression)	
	Pretreatment	De-interlacing, noise reduction, sharpening	
Video (one-seg)	Resolution	96×96, 128×96, 128×128, 192×192, 352×240, 352×288, 416×240	
	Encoding	MPEG-2; H.264; Auto (follow the main stream format: MPEG-2 or H.264)	
	Bit-rate	0-1.0 Mbps	
	Aspect Ratio	4:3; 16:9; Auto (follow the main stream)	
Audio	Encoding	MPEG-1 Layer II, HE-AAC (v1&v2), LC-AAC	
	Sampling rate	48KHz	
	Resolution	24-bit	
	Bit-rate	32Kbps~384Kbps	
Multiplexing		1 ASI input multiplexed with local 1 channels TS	
Delay		1400ms - 5000ms	
Stream output		2×ASI output ports, BNC interface MPTS/8*SPTS over UDP/RTP, 10/100 Base-T Ethernet interface (UDP/RTP multicast/unicast)	
System function		LCD/keyboard and web management Language: English	

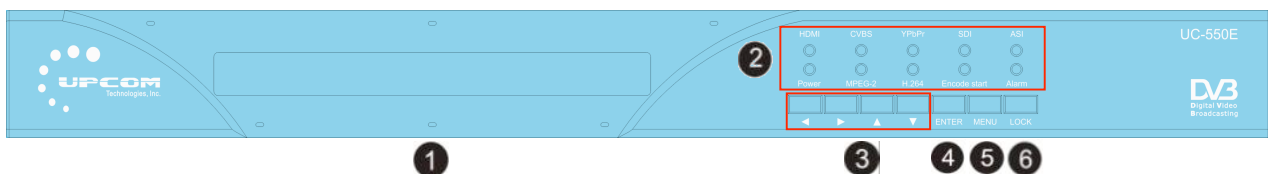
		Ethernet software upgrade
General	Dimensions	482mm×405mm×44.5mm (W × D × H)
	Approx weight	4.5Kg
	Temperature	0~45℃(Operation), -20~80℃(Storage)
	Power requirement	AC110V±10%, 50/60Hz /AC 220V±10%,50/60Hz
	Power consumption	21W

1.4 Principle Chart



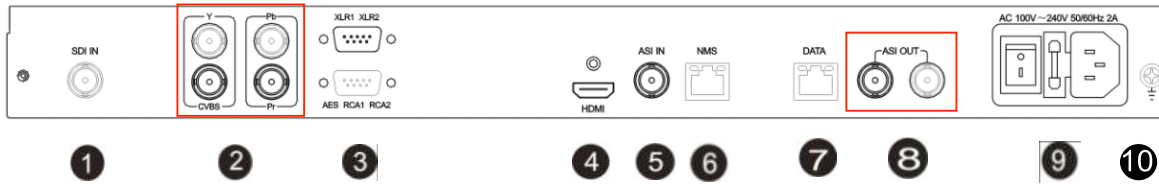
1.5 Appearance and Description

Front Panel Illustration



- ☐ LCD window
- ☐ LED Indicators
- ☐ Up, Down, Left and Right Navigation Buttons
- ☐ Enter Button: Confirms Selection
- ☐ Menu Button: Returns One Menu Level \ Cancels Selection
- ☐ Lock button: Saves Configuration to Memory \ Locks or Unlocks the Front Panel Keys

Rear Panel Illustration



- ① SDI Input BNC Connector
- ② YPbPr & CVBS Input Connectors
- ③ AES, RCA and XLR Input Connectors
- ④ HDMI Input Connector
- ⑤ ASI Input BNC Connector
- ⑥ Management Ethernet Port for Web GUI \ NMS Control
- ⑦ DATA Port for TSIP (Transport Stream over IP) Output
- ⑧ ASI Output Connectors
- ⑨ Power Supply/Fuse
- ⑩ Grounding Point

Chapter 2 Installation Guide

This section will list the precautions and necessary conditions required to install and operate the UC-550E properly.

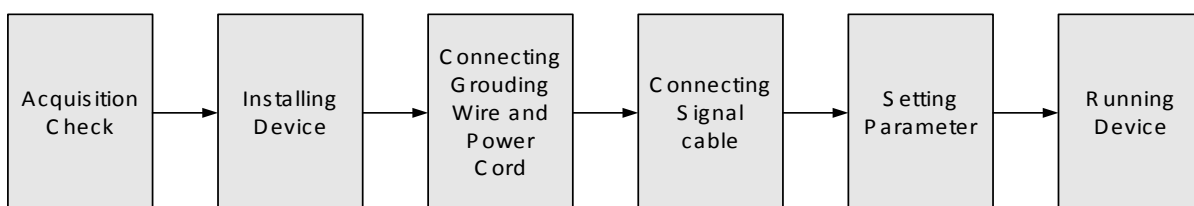
2.1 General Precautions

- ✓ Must be operated and maintained free of dust to preserve cooling airflow.
- ✓ The cover should be securely fastened at all times. Opening the top cover plate will void the product warranty. Do not open the top cover plate of the product while the power source is connected \ live under any circumstances.

2.2 Electric Precautions

- ✓ Ensure the power source of the product does not cause a power surge.
- ✓ Avoid operating in a humid environment.
- ✓ Ensure all power cords are in good condition.
- ✓ Ensure power switch is off during initial installation.

2.3 Device's Installation Flow Chart



2.4 Environmental Requirement

Item	Requirement
Equipment-Rack Requirements	Product will require 1.2~1.5m between neighboring devices. Allow 0.8m of space from walls.
Datacenter Flooring	Electrically Isolated, Dust Free. Volume resistivity of ground anti-static material: $1 \times 10^7 \sim 1 \times 10^{10} \Omega$, Grounding current limiting resistance: $1 M\Omega$ (Floor bearing should be greater than $450 K g/m^2$)
Environment Temperature	5~40°C(sustainable), 0~45°C(short term), Installing air-conditioning is recommended.
Relative Humidity	20%~80% sustainable 10%~90% short term
Pressure	86~105KPa
Doors & Window	Installing rubber strips for sealing door-gaps and dual pane glass windows are recommended.
Walls	Do not enclose the unit in spaces with poor airflow.
Fire Protection	Fire alarm system and extinguisher
Power	Ensure device, air-conditioning and lighting power are independent circuits. Device power requires AC 110V $\pm$ 10%, 50/60Hz or AC 220V $\pm$ 10%, 50/60Hz. Please carefully check sources before making connections.

2.5 Grounding Requirement

- ✓ Good grounding is essential for a reliable product lifespan.
- ✓ The grounding conductor should be made of copper in order to reduce high frequency impedance. The grounding wire must be as thick and short as possible.
- ✓ Users should make sure the two ends of the grounding wire have good electric conductivity and are rust-resistant.
- ✓ Separate grounding circuits from other devices.
- ✓ The area of conduction between grounding wire and the device's frame should be no less than 25 mm².

Chapter 3 Front Panel Operation

The UC-550E can be fully controlled using the front panel menu buttons. The LCD consists of a 2-line 40-character back-lit dot-matrix screen. The front panel contains the UP, DOWN, LEFT and RIGHT Menu Navigation Buttons.

Keyboard Function Description

LEFT/RIGHT/UP/DOWN: Menu Navigation.

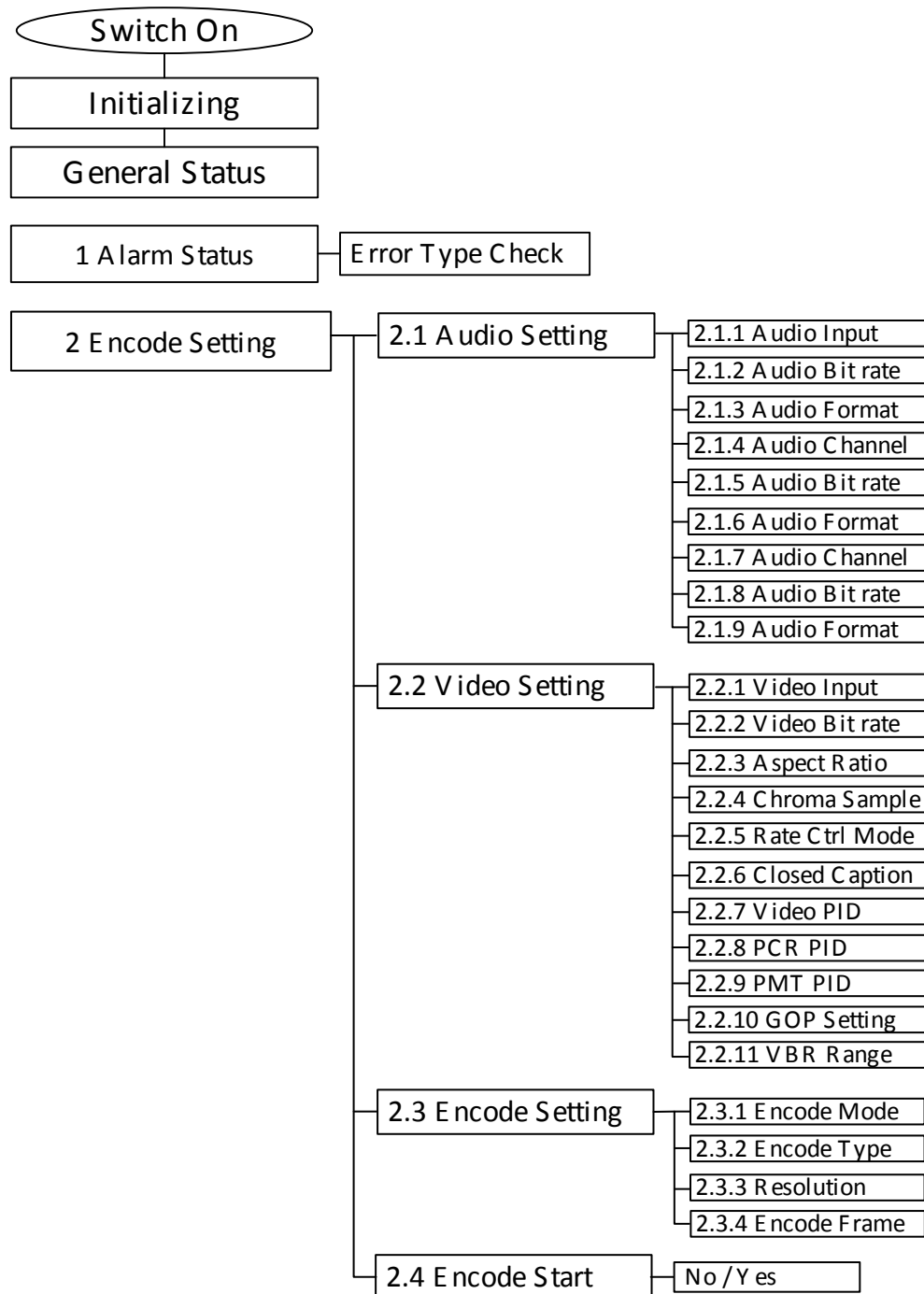
MENU: To cancel presently entered value and resume previous setting. Returns one menu level.

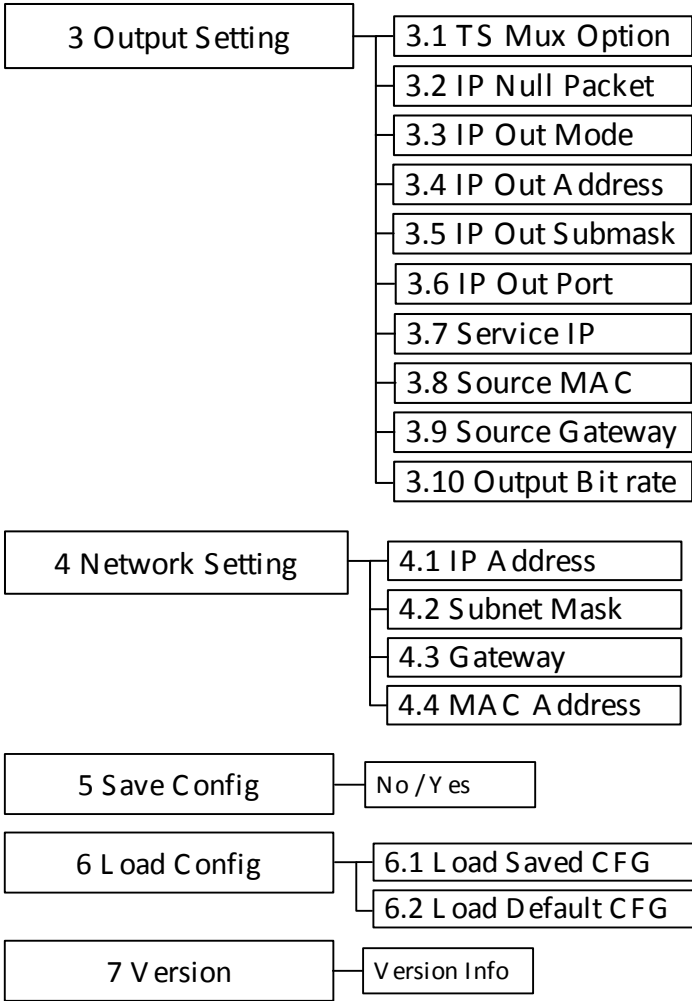
ENTER: Activate changes. Save settings to memory.

LOCK: Locks the screen / cancels the lock state. Saves unit settings to memory.

3.1 LCD Menus

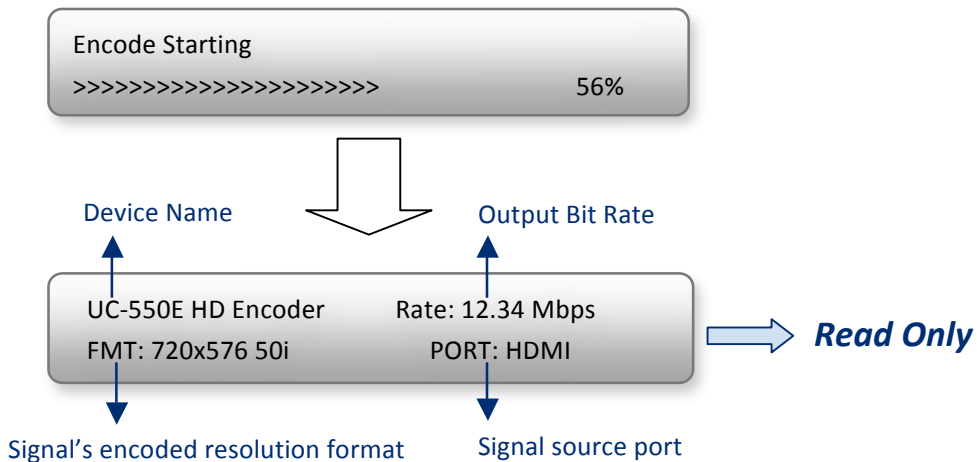
LCD Menu Path:





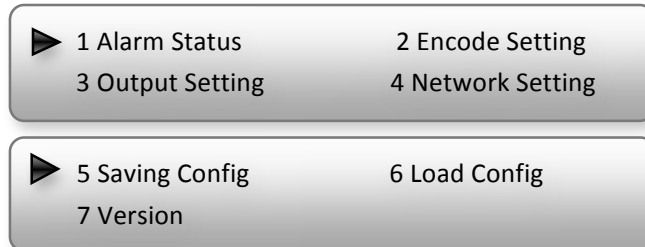
3.2 Initial Status

Boot-up and main menu information:



3.3 General Settings for Main Menu

Press the “**LOCK**” key on the front panel to enter the main menu. The LCD will display the following pages where user can configure the device settings:



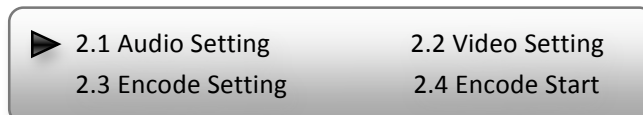
User can press the UP/DOWN/LEFT/RIGHT buttons to navigate menu items. Pressing enter at the relevant menu options will bring up the following displays:

3.3.1 ALARM STATUS

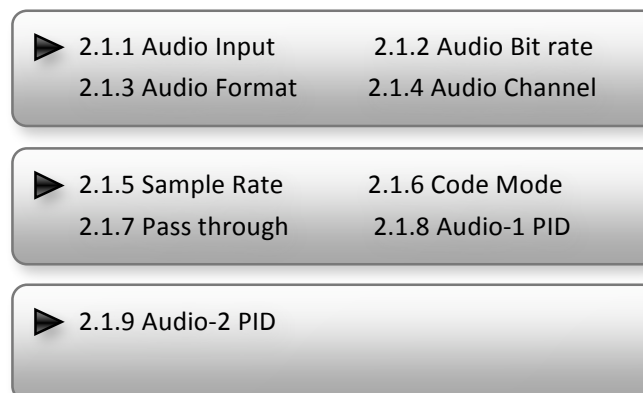
Encoder error messages will be displayed here.

3.3.2 ENCODE SETTING

Enter “2 *Encode Setting*” to configure the Video/Audio input and encoding parameters.



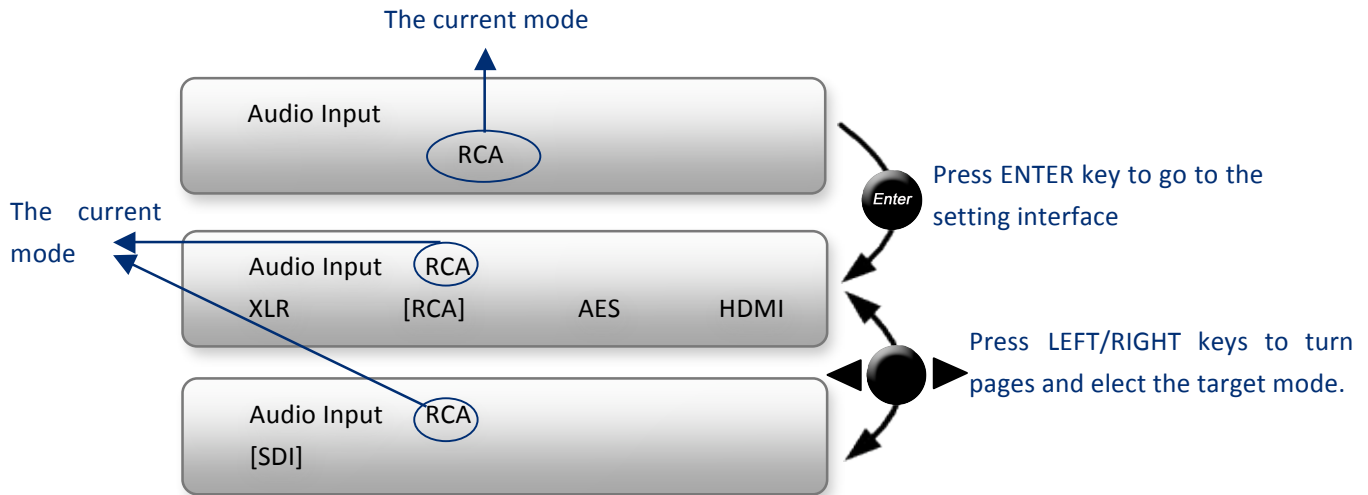
3.3.2.1 Audio Setting



➤ Audio Input

Press ENTER to enter menu *2.1.1 Audio Input*. Displays the current audio encoding

format. Press “ENTER” again to enter the selected sub-menu, move the square bracket with LEFT/RIGHT keys to select the target setting and press “ENTER” again to confirm. Lastly, press “MENU” to return one menu item.



If the audio\video source is either **HDMI** or **SDI** the device will automatically identify and match the corresponding interface.

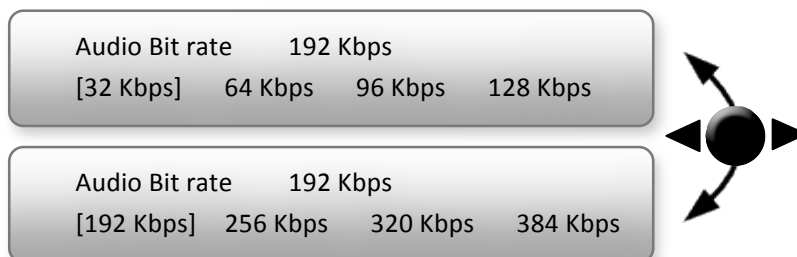


NOTE

THE OPERATIONAL APPROACHES DEFINED ABOVE ARE APPLICABLE FOR ALL MENUS.

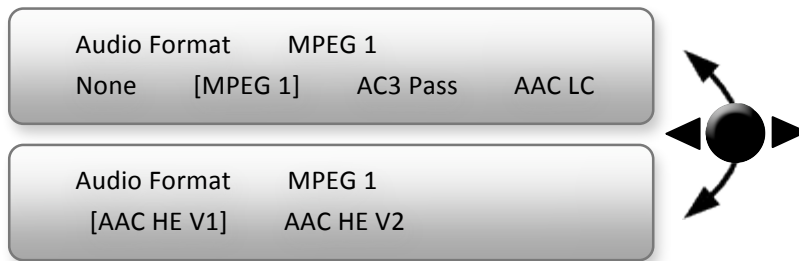
➤ Audio Bit rate

Select audio bit rate. Available range is 32Kbps – 384Kbps.



➤ Audio Format

Select applicable audio formats among items listed in the interface.



- If “None” is chosen for an audio format the system will not choose any audio streams to process and there will be no audio contained in the output data stream.
- If “AC3 Pass” is chosen the user will need to enable the pass-through function at menu “2.1.7 Pass through”.

➤ Audio Channel

UC-550E+ HD Encoder supports both **single** and **dual** audio channels (Audio1 and Audio 2).

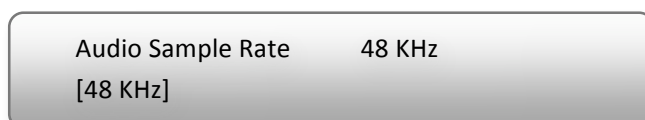


Single: Only Audio group 1 will be enabled.

Multi: Both Audio 1 and Audio 2 groups will be enabled.

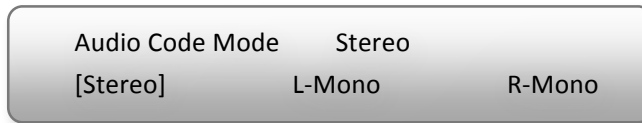
➤ Sample Rate

Currently only 48Khz is supported.



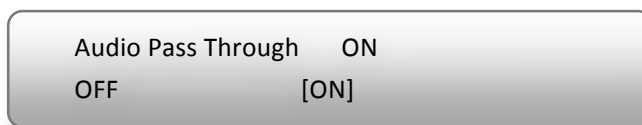
➤ Code Mode

Select audio mode: Stereo, L-Mono, and R-Mono.



➤ Pass Through

If the user desires to pass through unmodified source AC3 audio, select “*AC3 pass*” as the audio format at menu “*2.1.3 Audio Format*” (select “*ON*” at this menu).



➤ Audio-1/2 PID

The UC-550E+ HD Encoder supports both **single** and **dual** audio channels (Audio1 and Audio 2 groups). User can edit the audio PID at menus 2.1.8 and 2.1.9.

When the audio channel is set to single, only audio 1 PID is enabled. Otherwise if audio channel is set to multi, both audio1 and 2 PIDs are enabled.

Note: Values are in decimal.



- Press ENTER key to begin editing.
- Press LEFT/RIGHT key to move the selected digit.
- Press UP/DOWN key to adjust the selected value.
- Press ENTER key again to confirm changes.

NOTE

THE OPERATIONAL APPROACHES DEFINED ABOVE ARE APPLICABLE FOR ALL THE OTHER MENUS.

3.3.2.2 Video Setting

▶ 2.2.1 Video Input	2.2.2 Video Bit rate
2.2.3 Aspect Ratio	2.2.4 Chroma Sample

▶ 2.2.5 Rate Ctrl Mode	2.2.6 Closed Caption
2.2.7 Video PID	2.2.8 PCR PID

▶ 2.2.9 PMT PID	2.2.10 GOP Setting
2.2.11 VBR Range	

➤ Video Input

Press “ENTER” to enter menu *2.2.1 Audio Input*. The currently selected audio input interface will be displayed here.

Video Input	YPbPr
HDMI	CVBS [YPbPr] SDI

Users can change the input source by pressing the “ENTER” key and navigating to the desired source.

➤ Video Bit Rate

User can choose within Bitrate range 0.25-60.50 Mbps. This is only applicable when unit is set for CBR.

Video Bit rate
<u>12.00</u> Mbps

NOTE:

If **VBR** (Variable Bit Rate) is set as the rate-control mode, ensure the set video bit rate is within the VBR range (see 2.2.10).

➤ Aspect Ratio

Select desired aspect ratio mode from options listed.

Aspect Ratio	16x9
4x3	[16x9] 1x1 2.35x1

NOTE:

The UC-550E+ supports two Encoding Formats: **H.264** (MPEG4 AVC/H.264) and **MPEG2** (see 2.3.2). Mode “2.35x1” is only applicable for **H.264** encoding format.

➤ **Chroma Sample**

Select Chroma Sampling mode.

Chroma Sample
[4:2:0] 4:2:2

➤ **Rate Control Mode**

UC-550E+ supports both CBR (Constant Bit Rate) and VBR (Variable Bit Rate) bitrate control mode.

Rate Control Mode	CBR
[CBR]	VBR

➤ **Closed Caption (CC)**

ON: Inserts CC into the output stream

OFF: No CC is inserted into the output stream

Closed Caption	OFF
[OFF]	ON

➤ **Video/PCR/PMT PID**

Enter each sub-menu to edit the relevant PIDs.

NOTE: All values are decimal.

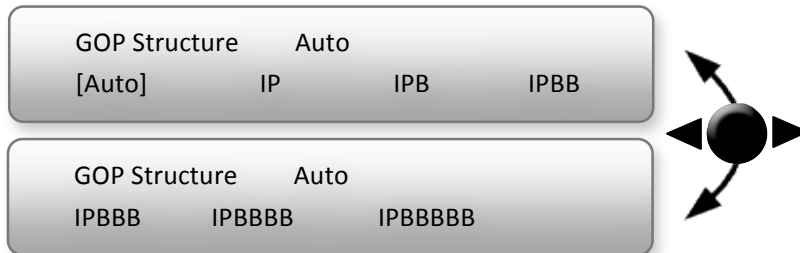
Video PID
<u>0</u> 258

PCR PID
<u>0</u> 256

PMT PID
0257

➤ GOP Setting

Select GOP (Group of Pictures) structure mode from the available options.



➤ VBR Range

When the Rate Control Mode is set as VBR user can enter this menu to set the allowable range. The minimum rate is fixed to 1.00 Mbps. User can only set the maximum value.

VBR range
01.00 – 15.00 Mbps

3.3.2.3 Encode Setting

▶ 2.3.1 Encode Mode	2.3.2 Encode Type
2.3.3 Resolution	2.3.4 Encode Frame

➤ Encode Mode

User can choose between encoding the program automatically or manually at this menu.

Encode Mode	Manual
Auto	[Manual]

➤ Encode Type

UC-550E+ supports two Encode Formats: **H.264** (MPEG4 AVC/H.264) and **MPEG2**.

User can choose which format at this menu.

Encode Type	MPEG 2
H.264	[MPEG 2]

➤ Resolution

Enter this menu to set the desired video resolution.

Encode Resolution	576i
480i	[576i] 720p 1080i

➤ Encode Frame

Enter this menu to set the desired video frame rate.

Encode Frame	50
[50]	59.94 60

3.3.2.4 Encode Start

Select 'Yes' to begin encoding the program as set by user parameters.

Encode Start?
☐ No Yes

3.3.3 OUTPUT SETTING

Enter “3 Output Setting” to set the TS output parameters.

▶ 3.1 TS Mux Option	3.2 IP Null Packet
3.3 IP Out Mode	3.4 IP Out Address

▶ 3.5 Audio Setting	3.6 Video Setting
3.7 Encode Setting	3.8 Encode Start

▶ 3.9 Audio Setting	3.10 Video Setting
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3.3.3.1 TS Mux Option

TS Mux Setting	Encode	
[Encode]	ASI	Mux

Encode: Encoded TS content only.

ASI: ASI sourced TS output only.

Mux: This option will allow the user to parse and filter selected programming from both Encoded and incoming ASI streams. Mux TS output will exit the ASI-OUTPUT ports.

3.3.3.2 IP Null Packet

User can decide whether to filter IP null packet at this menu.

Filter IP Null Packet?
[No] Yes

3.3.3.3 IP Out Enable

UC-550E+ HD encoder supports program streaming output over IP (MPTS or SPTS) through the Ethernet DATA port.

IP Out Mode	MPTS	
Disabled	SPTS	[MPTS]

3.3.3.4 – 3.3.3.9

User can enter menus **3.3.3.4 – 3.3.3.9** to configure relevant TSIP configuration.

IP Out Address
<u>2</u> 24.002.002.002

IP Out Mask
<u>2</u> 55.255.255.000

IP Out Port <u>1234</u>	
Service IP Address <u>192.168.002.137</u>	
Source MAC <u>11:22:33:44:55:22</u>	Source MAC is read only on the front panel. It is can only be modified in the Web management interface.
Source Gateway <u>192.168.002.001</u>	

3.3.3.10 Output Bit rate

This menu is only applicable when TS Output is set to 'MUX' or 'ASI'. It represents the total output bitrate. When unit is configured for 'ENCODE' TS output, bitrate will be selected in menu 2.2.

Output Bit rate <u>50.00</u> Mbps

3.3.4 NETWORK SETTING

Enter “4 *Network Setting*” to set the network parameters.

▶ 4.1 IP Address	4.2 Subnet Mask
4.3 Gateway	4.4 MAC Address

↓

IP Address <u>192.168.000.136</u>	→ This is the IP address used for connecting to Web management.
Subnet Mask <u>255.255.255.000</u>	
Gateway <u>192.168.000.001</u>	
MAC Address 00:11:22:33:55:11	→ The MAC is read only on the front panel. It is can be modified in the Web management interface.

3.3.5 SAVE CONFIGURATION

User can enter the *Save Configuration* menu to save settings to memory. Unsaved changes will be lost if unit power is lost. Choose yes and press “ENTER” to confirm.

Save Configuration?
Yes ▶ No

3.3.6 LOAD CONFIGURATION

User can choose to load last saved or default configuration.



6.1 Load Saved CFG

6.2 Load Default

3.3.7 VERSION

This menu will display the current unit firmware.

UC-550E HD Encoder

SW: XX.XX

HW: XX.XX

Chapter 4 WEB NMS Operation

4.1 Login

The default management IP address of this device is 192.168.0.136. This can be modified from the front panel in menu 4.1.

Connect the devices in a properly configured Local Area Network.

Use a web browser to connect to the device's Graphical User Interface by inputting the device's IP address in the browser's address bar.

The following screen will allow the user to input login credentials. Both the default Username and Password are "admin".

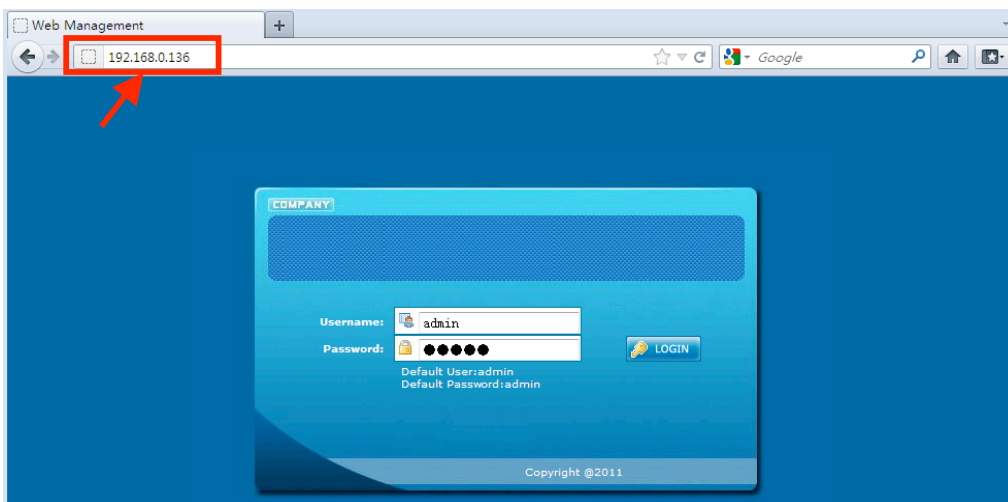


Figure-1

4.2 Operation

➤ System Information

Once proper credentials are validated unit will display general status.

Web Management

- System Information
- Parameter Setting
 - Encode Setting
 - Output Setting
 - TS Mux Setting
 - SPTS Setting
- Save/Load Config
- System Setting
 - Network Setting
 - Update Software
 - Reboot System
 - Modify Password

System Information

Introduction

Welcome to use HD-Encoder

Software Info

Webserver Version	V1.28	Software Version	V1.49
Build Time	Aug 26 2013	Hardware Version	V1.3.11

Encode State

Encode State	Encoding	Encode Type	H.264
Input Port Type	SDI	Encode Format	1080I
Output Bitrate	7.60 Mbps		

Alarm

System Alarm	None	Encode Alarm	None
--------------	------	--------------	------

User can click any item here to enter the corresponding interface to check information or set the parameters.

The system automatically reads and displays the current encoding state.

Indicators—Green light indicates it is working normally, which otherwise turns to red.

➤ Encode Setting

Click “*Encode Setting*” on the left column to display interface Figure 3 & Figure 4. User can set the Audio/Video parameters by inputting a value or selecting a value in the pull-down list.

Red boxes and arrows in Figure 3 and Figure 4 display the hidden sub-menus under different settings.

Web Management

- System Information
- Parameter Setting
 - Encode Setting
 - Output Setting
 - TS Mux Setting
 - SPTS Setting
- Save/Load Config
- System Setting
 - Network Setting
 - Update Software
 - Reboot System
 - Modify Password

Encoder Setting

Audio Setting

Audio Interface	SDI	Audio Bitrate	192 Kbps
Audio Format	MPEG1	Audio Channel	Single
Audio Sample Rate	48 KHz	Audio Pass Through	OFF
Audio Code Mode	Stereo	Audio-1 PID	512

Apply

Video Setting

Video Interface	SDI	Video Bitrate	6.00 Mbps
Video Rate Control Mode	CBR	Video Aspect Ratio	16x9
Video Chroma Sampling	4:2:0	Closed Caption	OFF
Video PID	258	PCR PID	256
PMT PID	257	GOP Structure	Automatic
Video PIP Output	Enable		
Adjust Window Format	Auto		

Apply

Encode Setting

Encode Mode	Manual	Change	Status: Encoding
Encode Type	H.264		
Encode Resolution	1080I		
Encode Frame	50		

Apply Start Encode

Figure-3

Web Management

- System Information
- Parameter Setting
 - Encode Setting
 - Output Setting
 - TS Mux Setting
 - SPTS Setting
- Save/Load Config
- System Setting
 - Network Setting
 - Update Software
 - Reboot System
 - Modify Password

Encoder Setting

Audio Setting

Audio Interface	SDI	Audio Bitrate	192 Kbps
Audio Format	MPEG1	Audio Channel	Multi
Audio Sample Rate	48 KHz	Audio Pass Through	OFF
Audio Code Mode	Stereo	Audio-1 PID	512
Audio-2 PID	513		

Apply

Video Setting

Video Interface	SDI	Video Bitrate	6.00 Mbps
Video Rate Control Mode	VBR	Video Aspect Ratio	16x9
Video Chroma Sampling	4:2:0	Closed Caption	OFF
Video PID	258	PCR PID	256
PMT PID	257	GOP Structure	Automatic
Video PIP Output	Enable	VBR Bitrate Range	1.00 ~ 15.00 Mbps
Adjust Window Format	Adj 1 Bottom	Adjust Capture Line	+1

Apply

Encode Setting

Encode Mode	Auto	Change	Status: Encoding
Encode Type	H.264		
Encode Resolution	1080I		
Encode Frame	50		

Apply Start Encode

Figure-4

Important Function Remarks:

Encoder Setting

Audio Setting

Audio Interface	SDI	Audio Bitrate	192 Kbps
Audio Format	MPEG1	Audio Channel	Single
Audio Sample Rate	48 KHz	Audio Pass Through	OFF
Audio Code Mode	Stereo	Audio-1 PID	512

Apply

Video Setting

Video Interface	SDI	Video Bitrate	6.00 Mbps
Video Rate		Video Aspect Ratio	16x9
		Closed Caption	OFF
PMT PID	257	PCR PID	256
Video PIP Output	Enable	GOP Structure	Automatic
Adjust Window Format	Auto		

Apply

Encode Setting

Encode Mode	Manual	Change	Status:Encoding
Encode Type	H.264		
Encode Resolution	1080I		
Encode Frame	50		

Apply Start Encode

Video PIP Help

Enable/disable the video PIP output. If the PIP is enabled, the encoder will output a lower resolution (352X288) video stream.

Be careful to apply this function: If the output video has problems, like there is ghost on the screen, users can apply this function to adjust lines or fields to debug.

Adjust Window Format

Adj I Bottom
Auto
Adj I Bottom
Adj I Top
Adj P Frame

Adjust Window Format Help

Adjust active window format.

WARNING: This param is advanced param, Be careful when you set this param!

Auto: default
Adj I Bottom: Adjust bottom field for interlace format.
Adj I Top: Adjust top field for interlace format.
Adj P Frame: Adjust frame for progressive format.

Adjust Capture Line

+1
-1
0
+1
+2
+3

Adjust Line Help

Adjust line number.

WARNING: This param is advanced param, Be careful when you set this param!

-1: Adjust -1 line.
0: Adjust 0 line.
+1: Adjust +1 line.
+2: Adjust +2 line.
+3: Adjust +3 line.



“Help” Function

If the following cursor appears, click to display additional information.



Encoder Setting

Audio Setting

Audio Interface	HDMI	Audio Bitrate	192 Kbps
Audio Format	MPEG1	Audio Channel	Single
Audio Sample Rate	48 KHz	Audio Pass Through	OFF
Audio Code Mode	Stereo	Audio-1 PID	512

Apply

Video Setting

Video Interface	HDMI	Video Bitrate	12.00 Mbps
Video Rate Control Mode	CBR	Video Aspect Ratio	16x9
Video Chroma Sampling	4:2:0	Closed Caption	OFF
Video PID	258	PCR PID	256
PMT PID	257	GOP Structure	Automatic

Figure-5

Encoder Setting

Audio Setting

Audio Interface	HDMI	Audio Bitrate	192 Kbps
Audio Format	MPEG1	Audio Channel	Single
Audio Sample Rate	48 KHz	Audio Pass Through	OFF
Audio Code Mode	Stereo	Audio-1 PID	512

Apply

Video Setting

Video Interface	HDMI	Video Bitrate	12.00 Mbps
Video Rate Control Mode	CBR	Video Aspect Ratio	16x9
Video Chroma Sampling	4:2:0	Closed Caption	OFF
Video PID	258	PCR PID	256
PMT PID	257	GOP Structure	Automatic

Figure-6

➤ Output Setting

Click “*Output Setting*” on the left column and it will display interface Figure-7. User can set the output parameters by inputting a value or selecting a mode in the pull-down list.

Web Management

- System Information
- Parameter Setting
 - Encode Setting
 - Output Setting
 - TS Mux Setting
 - SPTS Setting
- Save/Load Config
- System Setting
 - Network Setting
 - Update Software
 - Reboot System
 - Modify Password

Output Setting

Mux Output Option	Encode Pass Through	Filter IP Null Packet	No
IP Output Mode	Encode Pass Through	IP Output Address	224.2.2.2
IP Output Mask	255.255.255.0	IP Output Port	1234
Service IP	192.168.2.137	Source MAC Address	40:22:33:44:55:22
Gateway	192.168.2.1		

Apply

Figure-7

➤ TS Mux Setting

Click “TS Mux Setting” on the left column to display interface Figure-8. This section is for filtering programs that are sourced from both the ASI Input and Encoder interfaces (HDMI/SDI/CVBS/YPbPr).

NOTE:

This mux section will be applicable on condition that “TS Mux” is chosen at the “Mux Output Option” in “Output Setting” (Figure 7).

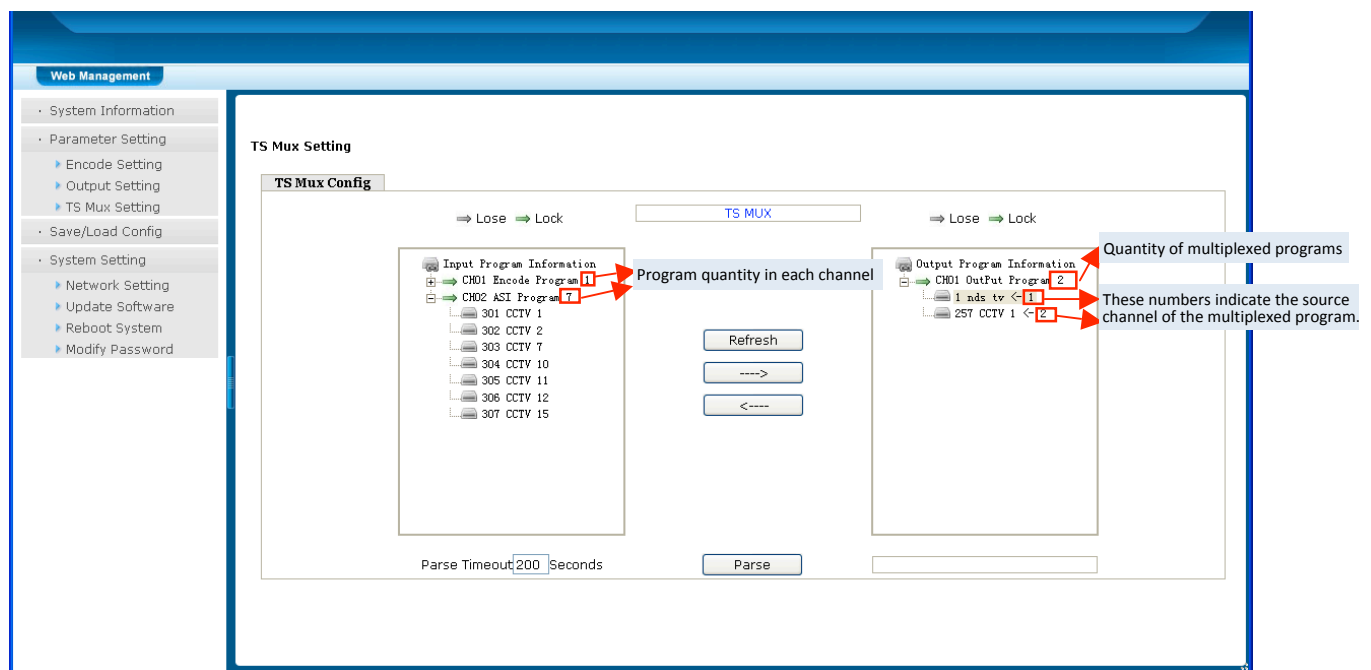


Figure-8

Refresh Click “Refresh” button to refresh the input/output program list.

----> Select one program in the input box and click this button to transfer the selected program to the output box.

<---- Similarly, user can click this button to remove the multiplexed programs from the right box.

Parse click this button to parse the program list in each input channel.

Parse Timeout 200 Seconds Maximum time limitation to parse the input programs.

◆ Modify Program Information:

When one program is selected to output, user can **double-click** the program in the right box to reset the program information. It will trigger a dialog box as below (Figure 9):

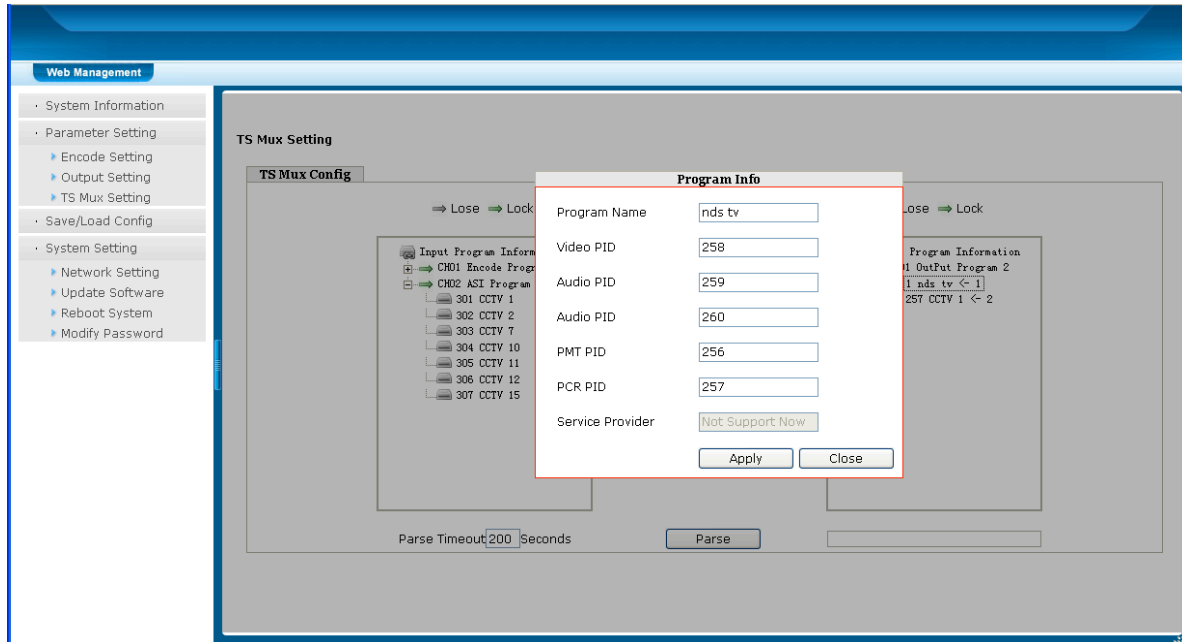


Figure-9

Input the custom data and click to confirm.

➤ SPTS Setting

UC-550E+ HD encoder supports 1 MPTS IP or 8 SPTS IP output. Click “*SPTS Setting*” on the left column and it will display interface Figure-10 where user can configure the SPTS output.

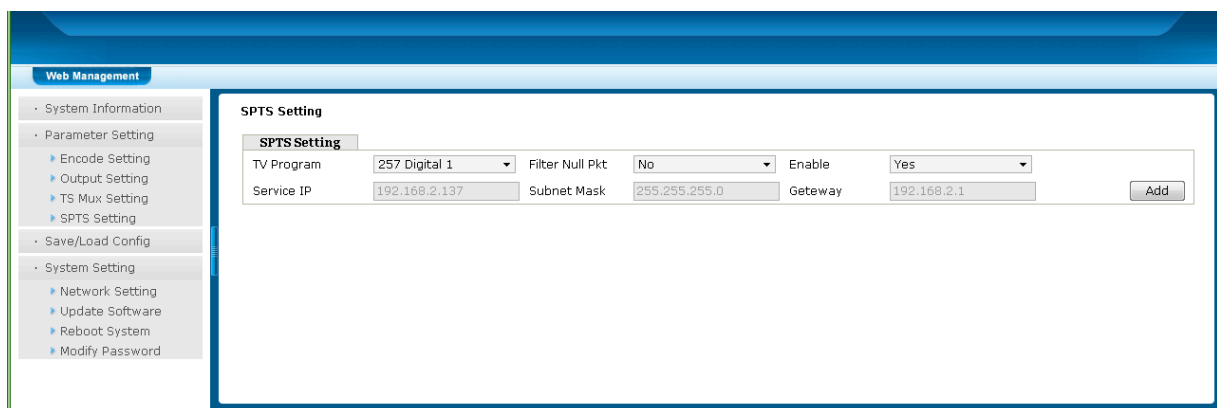


Figure-10

Select one program and click **Add** to add its SPTS information. (Figure 11)

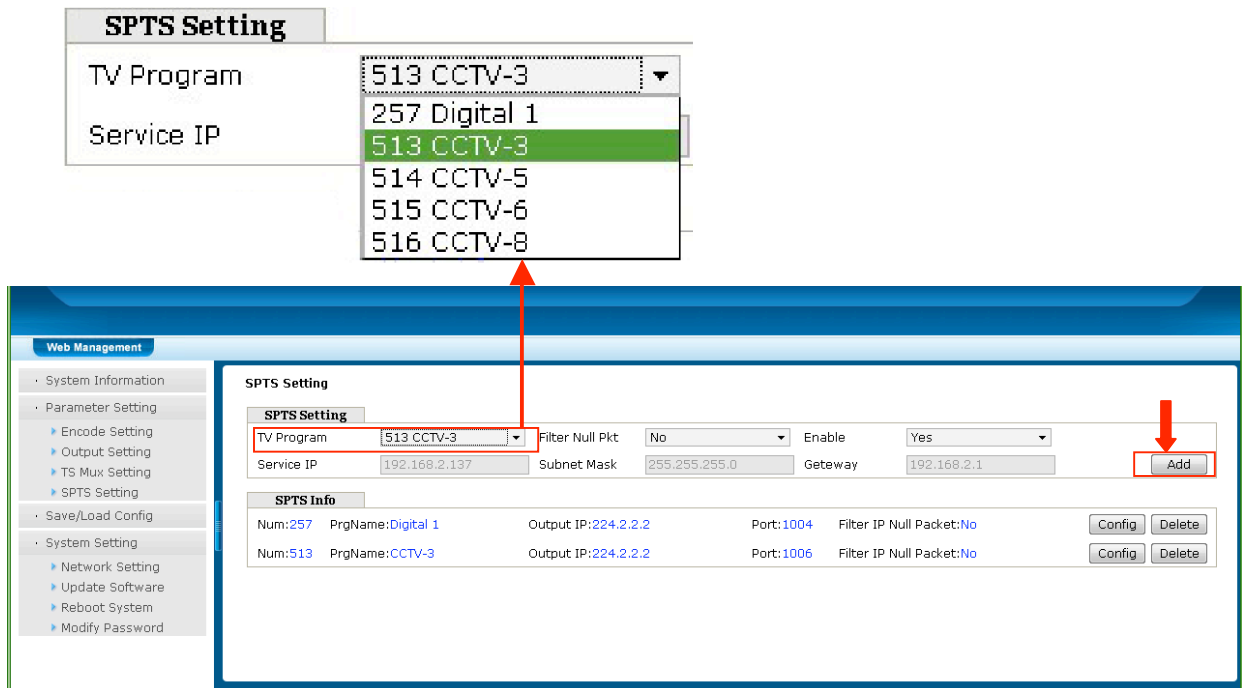


Figure-11

Select one program and click **Config** to modify its SPTS information. (Figure 12)

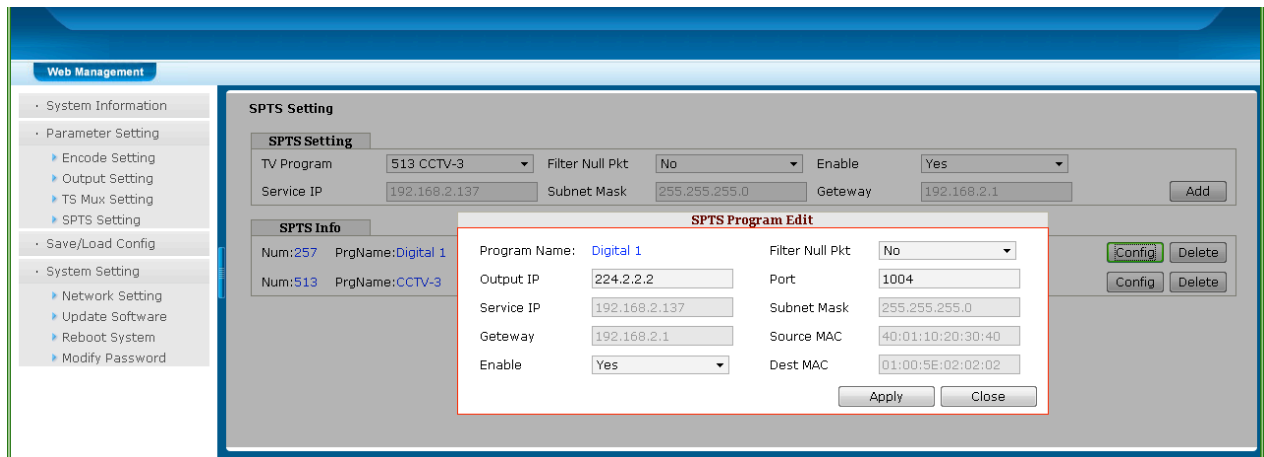


Figure-12

Click **Apply** to confirm.

➤ Save/Load Config

Click “Save/Load Config” on the left column and it will display interface Figure-13 where user can save or load existing configuration as per prompts.

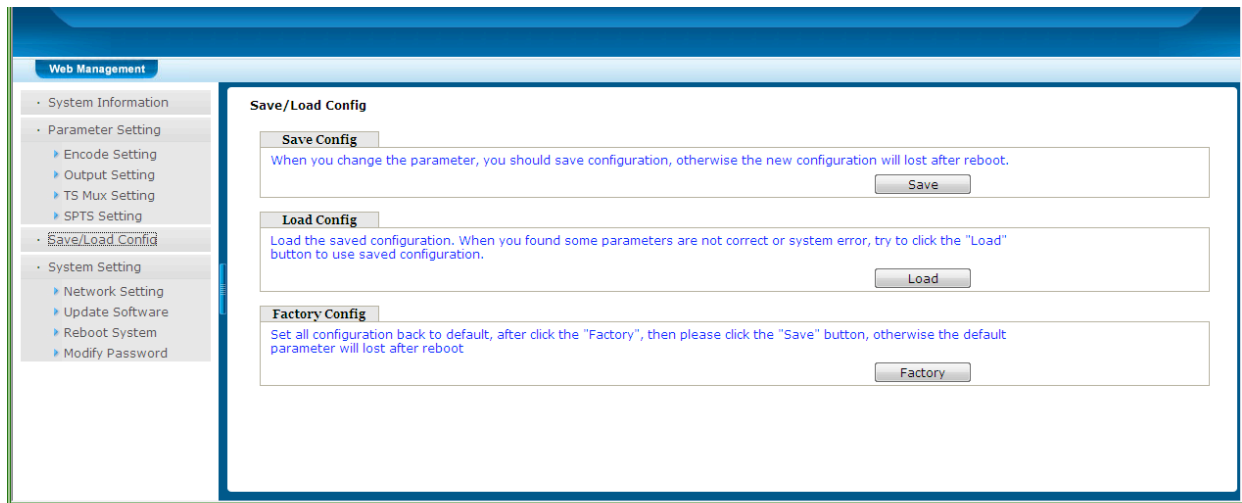


Figure-13

➤ Network Setting

Click “*Network Setting*” on the left column and it will display interface Figure-14 where user can check or reset the network parameters.

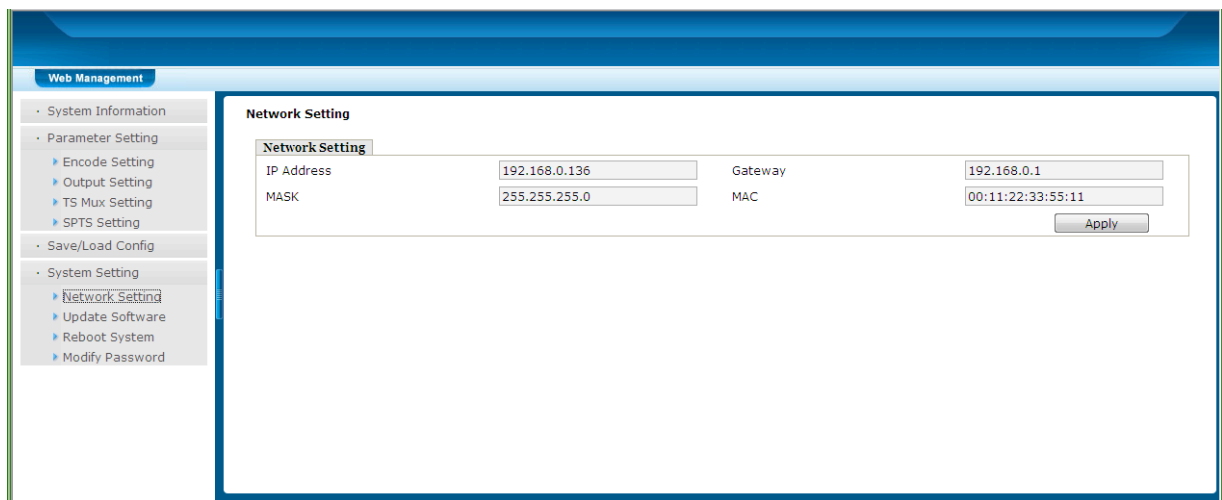


Figure-14

➤ Update Software

Click “*Update Software*” on the left column to display interface Figure-15 where user can update the software for the device. Click browse button to find the update file on a local hard drive and click “Update” button to start updating.

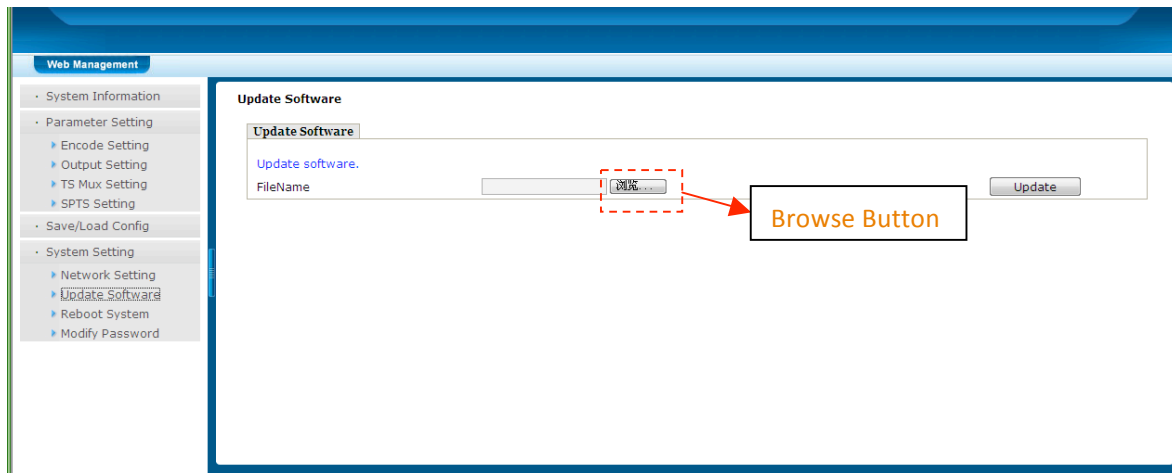


Figure-15

➤ Reboot System

Click “*Reboot System*” on the left column and it displays interface as Figure-16 where user can reboot the system as per prompts.

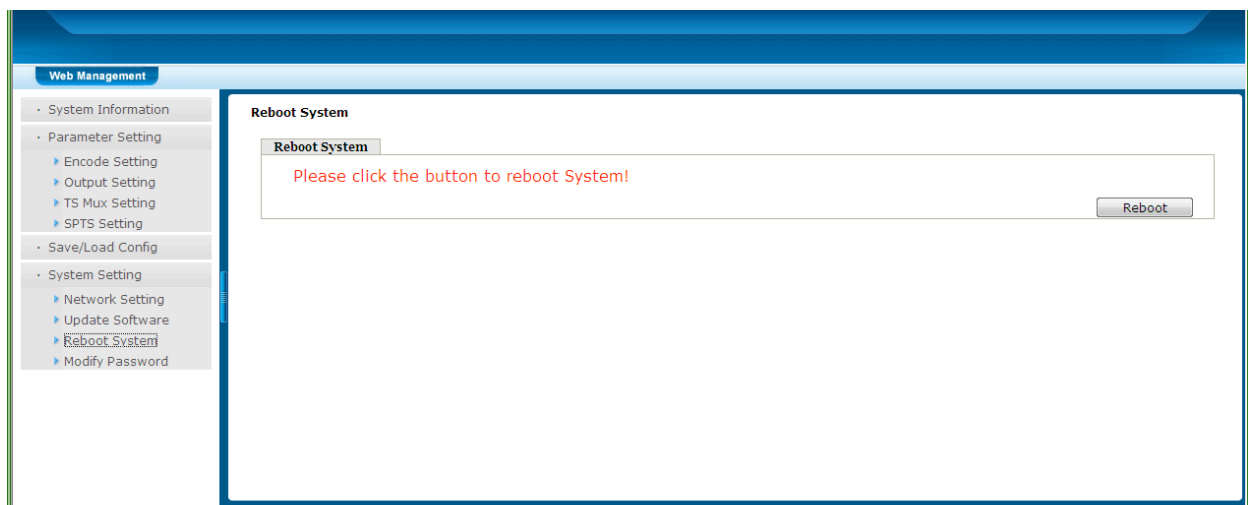


Figure-16

➤ Modify Password

Click “*Modify Password*” on the left column and it displays interface Figure-12 where user can reset the login credentials as needed.

The screenshot displays the 'Web Management' interface of the UC-550E+ MPEG-2/H.264 HD Encoder. On the left, a sidebar menu lists various system settings, with 'Modify Password' highlighted under the 'System Setting' category. The main content area is titled 'Modify Password' and contains a form with the following fields: 'Old UserName', 'Old Password', 'New UserName', 'New Password', and 'Confirm Password'. Each field is represented by a text input box. An 'Apply' button is located at the bottom right of the form area.

Modify Password	
Old UserName	
Old Password	
New UserName	
New Password	
Confirm Password	
Apply	

Figure-12

Chapter 5 Troubleshooting

UPCOM Technologies' ISO9001 quality assurance system has been approved by the CQC Organization to guarantee all products' quality and reliability. UPCOM products must pass testing and inspection before leaving the factory. The testing and inspection process covers all the Optical, Electronic, and Mechanical criteria. To prevent potential hazard, please strictly follow all operation instructions.

Upcom Technical support can be contacted by e-mailing support@upcom.com or calling 1-408-329-4158.

Preventative Measure

- Installing and operating the device in temperatures between 0-45 °C.
- Ensuring proper cooling airflow for the device.
- Carefully check the input AC for the proper power supply working range.
- Check all signal cables have been properly connected.
- Allow a 10-second interval between alternating power ON\OFF states.

Unplug the power cord if:

- Damaged power cord or socket.
- Any accidental liquid spillage on device.
- Any suspicion of short circuits.
- Physical damage.
- Long-term idle periods are planned.
- Performing any needed maintenance.

Chapter 6 Packing List

UC-550E+ MPEG2/H.264 HD Encoder	1PC
HDMI Cable	1PC
SDI Cable	1PC
YPbPr Cable	1PC
CVBS Cable	1PC
Audio Cables	2PCs
Power Cord	1PC